REGISTRATION AND INFORMATION PACKAGE

FOR THE

1999 MILITARY/AEROSPACE (TRANSPORTATION) COTS CONFERENCE

August 25-27, 1999

RADISSION HOTEL BERKELEY MARINA, CA

ENCLOSURE 1: Committee Membership & Preliminary Agenda

A final Agenda will be provided at the Conference.

ENCLOSURE 2: Registration Form:

This form must be filled out and returned **NO LATER THAN AUGUST 15, 1999** along with a non-refundable Registration Fee of \$300.00 (after this date the fee will be \$375.00). Checks should be made payable to The C3I, Inc. **Credit Cards not accepted**. Completed form and payment should be sent to:

Edward B. Hakim The C³I, Inc. 2412 Emerson Avenue Spring Lake, NJ 07762 Tele & Fax (732) 449-4729

Registration confirmation will **not** be mailed. Receipts will be provided at the conference

SEE EMAIL Tutorial Information and Registration Form
ATTACHMENT:

SEE EMAIL
ATTACHMENT:

Conference Location (Hotel Information Maps)
All Sessions of the Conference will be held at the

All Sessions of the Conference will be held at the Radission Hotel where a block of rooms is being held for the Conference attendees. To obtain the \$99.00 rate, mention you are attending the COTS Conference. To obtain this rate the hotel must be contacted no later than August 5, 1999.

1999 MILITARY/AEROSPACE (TRANSPORTATION) COTS CONFERENCE

ORGANIZED BY

THE CENTER FOR COMMERCIAL COMPONENT INSERTION, INC.

(THE C³I)

Sponsored by:

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
AND
NAVAL SURFACE WARFARE CENTER

TECHNICAL PROGRAM COMMITTEE

Stan Purwin (Chairman)
Johns Hopkins University APL

Chuck Pagel, Naval Surface Warfare Center-Crane Division Tom Stadterman, Army Materiel Systems Analysis Activity Nick Lycoudes, Motorola Semiconductor Products Sector

1999 MILITARY / AEROSPACE (TRANSPORTATION) COTS CONFERENCE

PRELIMINARY AGENDA

CONFERENCE SITE: Radission Hotel Berkeley Marina, Berkeley, CA

<u>DATES:</u> August 25-27, 1999 (Wednesday - Friday)

Wednesday August 25, 1999 -- 8:00 A.M. - 7:00P.M.

7:00 - 8:00 CONFERENCE CHECK-IN & REFRESHMENTS

8:00 - 8:15 WELCOMING REMARKS - Conference Chairman:

Edward B. Hakim, The Center for Commercial Component

Insertion, Inc. (The C³I), Spring Lake, NJ

SESSION 1: COTS - ACCEPTANCE & USAGE

Wednesday, August 25, 1999 -- 8:15 A.M. to 11:45 A.M.

Session Chairman: Stanley Purwin, Johns Hopkins University Applied Physics Laboratory, Laurel, MD

8:15 - 8:45 (1.1)	Use of COTS Technology in Military Systems Robert McCaig, Lockheed Martin Federal Systems, Manassas, VA
8:45 - 9:15 (1.2)	Technology Qualification vs. Part Qualification Joel B. Russeau and Eugene R. Hnatek, Compaq Computer Corp.
9:15 -9:45 (1.3)	Development and Application of a Standard for Suppliers and Part Qualification/Monitoring for Plastic Encapsulated Microcircuits and Semiconductors Francis X. Edwards, Raytheon Systems Company, Sudbury, MA
9:45 -10:00	Refreshment Break
10:00 -10:30 (1.4)	Application of COTS Products in Military and Aerospace Systems: Best Practices for COTS Life Cycle Management and Supportability Dinesh Verma, Lockheed Martin Federal Systems, Manassas, VA

10:30 - 11:00 (1.5)	Evaluation and Management of Commercial Parts David Locker, Army AMCOM and Bill Glover, JAVELIN PM Office, Redstone Arsenal, AL, Jerry Sellers and Philip Wood, Lockheed Martin Electronics and Missiles, Orlando, FL and Wendy Good, Northrop-Grumman, Baltimore, MD
11:00 - 11:30 (1.6)	Effective Strategies for Long Term COTS Support Planning Dennis J. Genaw, Loskheed Martin GES, Moorestown, NJ
11:30 - 11:45	COTS - ACCEPTANCE & USAGE PANEL Session 1 Presenters
12:00 - 1:00	Lunch

SESSION 2: RELIABILITY

Wednesday, August 25, 1999 -- 1:00 P.M. - 3:15 P.M.

Session Chairma	an: Bernard Pietrucha, Lucent Technology, Bell Laboratories, Whippany, NJ
1:00 - 1:45 (2.1)	Evaluating the Reliability of Commercial-Off-The-Shelf (COTS) Items Ned H. Criscimagna, IIT Research Institute, Lanham MD
1:45 - 2:30 (2.2)	Reliability of The microSMD - A Wafer Level Chip Scale Package Luu Nguyen, Nikhil Kelkar, Ranjan Mathew and Hem Takiar, National Semiconductor Corp., Santa Clara, CA
2:30 - 3:15 (2.3)	The Use of Physics-of-Failure Analysis to Predict the Reliability of Semiconductor Devices Bob Knoell and Rick Adams, Visteon Automotive Systems and Patrick McCluskey, University of Maryland
3:15 - 3:30	Refreshment Break

SESSION 3:	DEVICE TECHNOLOGY Wednesday, August 25, 1999 3:30 P.M 5:15 P.M.
------------	-----------------------------------------------------------------

3:30 - 4:15 Wafer Level Underfill of Flip Chip Packaging
(3.1) Luu Nguyen, National Semiconductor Corp., Santa Clara, CA

4:15 - 5:00 (3.2)	Effectiveness of Conformal Coatings as Moisture Barriers for Plastic Encapsulated Microcircuits Francis X. Edwards, Raytheon Systems Company, Sudbury, MA
5:00 - 5:15	RELIABILITY and DEVICE TECHNOLOGY PANEL Session 2 and 3 Presenters
5:30 - 7:00	Wednesday Evening Cocktail Reception

7:00 - 8:00 A.M. CONFERENCE CHECK-IN & REFRESHMENTS

SESSION 4: PARTS MANAGEMENT

12:15 - 1:00

Lunch

Thursday, August 26, 1999 -- 8:00 A.M. to 12:15 P.M.

Session Chairman: Edward Reichentahl, Sikorsky Aircraft Corp., Trumbull, CT		
8:00 - 8:45 (4.1)	Navigating COTS to New Dephts Mary Johnson, Lockheed Martin Navigation and Gravity Systems, Mitchel Field, NY	
8:45 - 9:30 (4.2)	Strategic Development for Global Supply Chain Systems Nancy Wendorf, Motorola, Scottsdale, AZ	
9:30 -10:15 (4.3)	The Commercial Avionics Industry's Approach to using Commercial Microcircuits in Hi-Rel Applications John Fink, Honeywell Commercial Aviation Div., Coon Rapid, MN	
10:15 -10:30	Refreshment Break	
10:30-11:15 (4.4)	NAVSEA Parts Requirements and Application Manual Tom Davidson, Naval Surface Warfare Center, Crane, IN	
11:15 -12:00 (4.5)	Manufacturer Assessment Process Roxy Kendall, Celestica Corp., Toronto, Canada	
12:00 - 12:15	PARTS MANAGEMENT PANEL Session 4 Presenters	

SESSION 5: OBSOLECENCE

Thursday, August 26, 1999 -- 1:00 P.M. - 3:30 P.M.

Session Chairman: Tom Davidson, Naval Surface Warfare Center, Crane, IN

1:00 - 1:45 (5.1)	Technology Refreshment of COTS-Based Military Systems Galen Plunkett, Lockheed Martin Underseas Systems, Manassas, VA
1:45 - 2:30 (5.2)	Custom Engineered Solutions, Sustainment Kerry Stevens and Jim DeCamp, Naval Undersea Warfare Center, Keyport, WA
2:30 - 3:15 (5.3)	Using a New COTS Approach in Solving DoD Legacy Electronic Systems Obsolescence Gary L. Fitzhugh, CPU Technology, Inc., Pleasanton, CA
3:15 - 3:30	Refreshment Break
SESSION 6:	PEMs IN SPACE
	Thursday, August 26, 1999 3:30 P.M 5:15 P.M.
3:30 - 4:15 (6.1)	Thursday, August 26, 1999 3:30 P.M 5:15 P.M. Ensuring Performance/Reliability of Plastic Encapsulated Microcircuits (PEMs) in Space Applications is Mission Specific Kim A. Cooper and Andrew F. Moor, Johns Hopkins University Applied Physics Laboratory, Lauriel, MD and R. David Gerke, Mike Sandor and Shri Agarwal, Jet Propulsion Laboratory, Pasadena,CA
	Ensuring Performance/Reliability of Plastic Encapsulated Microcircuits (PEMs) in Space Applications is Mission Specific Kim A. Cooper and Andrew F. Moor, Johns Hopkins University Applied Physics Laboratory, Lauriel, MD and R. David Gerke, Mike Sandor and Shri Agarwal, Jet Propulsion Laboratory,

Session 5 and 6 Presenters

Friday August 27, 1999 - 8:30 A.M. - 12:00 P.M

8:00 - 8:30 A.M. CONFERENCE CHECK-IN & REFRESHMENTS

SESSION 7: PRODUCT EVALUATION
Friday, August 27, 1999 -- 8:30 A.M. - 12:00 P.M.

Session Chairman: Kerry Stevens, Naval Undersea Warfare Center, Keyport, WA

8:30 - 9:15 (7.1)	The Use of Highly Accelerated Stress Tests (HAST) for PEMs Qualification and Reliability Prediction James Sweet, Sandia National Laboratories, Albuquerque, NM
9:1 5 - 10:00 (7.2)	Understanding Electronic System Vibration Life Capabilities John E. Starr, Engineering Consultant, Plymouth, MN
10:00 - 10:15	Refreshment Break
10:15 - 11:00 (7.3)	An Advanced Packaging Solution for Navy Shipboard Electronics - CITADEL Roger R. Smith, Naval Surface Warfare Center, Crane, IN
11:00 - 11:45 (7.4)	Acoustic Microscopy Inspection Techniques (C-Mode Scanning of Multilayered Devices) Allen Hawes, Naval Surface Warfare Center, Crane, IN
11:15 - 12:00 (7.5)	PRODUCT EVALUATION PANEL Session 7 Presenters
12.00 - 1:00	Lunch

ADJOURN CONFERENCE

1999 MILITARY/AEROSPACE (TRANSPORTATION) COTS CONFERENCE

REGISTRATION FORM

NAME:	
AFFILIATION:	
AFFILIATION ADDRESS:	
TELEPHONE:EMAIL:	FAX:
Enclosed is \$300.00 (non-refundable) to cov	
Foreign Conference attendees must use Amdrawn against a US Institution.	nerican Dollars, Travelers Checks or a check
Credit Cards <u>NOT</u> Accepted.	
Please make checks payable to The C3I, Inc	c. & mail with this form to:

Edward B. Hakim
The Center for Commercial Component Insertion (C3I, Inc)
2412 Emerson Avenue
Spring Lake, NJ 07762

Registration Fee Received after August 15, 1999 will be \$375.00

Radisson Hotel Berkeley Marina, Berkeley, CA reservations can be made by dialing (510) - 548 - 7920. The \$99.00 room rate is available by requesting the COTS Conference rate. To obtain this rate the hotel must be contacted no later than August 5, 1999.

TRANSPORTATION OPTIONS TO THE

RADISSON

HOTEL BERKELEY MARINA

200 Marina Boulevard, Berkeley, California 94710

SAN FRANCISCO AND OAKLAND AIRPORTS

Reservations Required - Hotel Guests may call Guest Services for assistance in Making your Reservations. 24 Hours Advance Notice is recommended.

BAYPORTER EXPRESS 415 – 467 - 1800

Oakland \$12.00 S.F.O. \$13.00

AIRPORT CONNECTION 650 – 401 - 8300

Oakland \$25.00 - 65.00 S.F.O. \$35.00 - 65.00

BAY AREA SHUTTLE 510 - 444 - 2211

Oakland \$22.00 - 26.00 \$.F.O. \$35.00 - 45.00

TAXI SERVICES

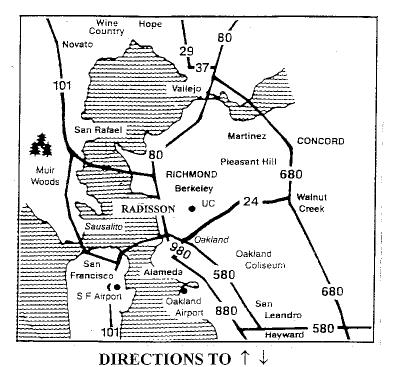
NATIONAL TAXI 510 – 843 - 7520 Oakland \$33.00 Prices are Approximate

S.F.O. \$50.00

FRIENDLY CAB 510 - 655 - 0708

Oakland \$33.00 Prices are Approximate

S.F.O. \$50.00



Radisson Hotel Berkeley Marina

From San Francisco:

Take 101 North to I-80 East staying left once over and across the Bay Bridge. Exit at University Ave. Make a U-Turn at the first traffic light (6th St.) You will be heading West toward the Bay on University. Make a right on Marina Blvd. Hotel entrance is about one quarter of a mile ahead on your left.

From Oakland:

Take Hwy 880 North to Hwy 580 West toward San Francisco, then to 80 East Berkeley. Exit at University Avc. Make a U-Turn at the first traffic light (6th St.) You will be heading West toward the Bay on University. Make a right on Marina Blvd. Hotel entrance is about one quarter of a mile ahead on your left.

From Sacramento:

Take 1-80 South to Berkeley. Exit at University Ave. Make the first left at the stop sign after looping around the exit ramp onto University Ave. Make a right onto Marina Blvd. Hotel entrance is about one quarter of a mile ahead on your left.